

1/10

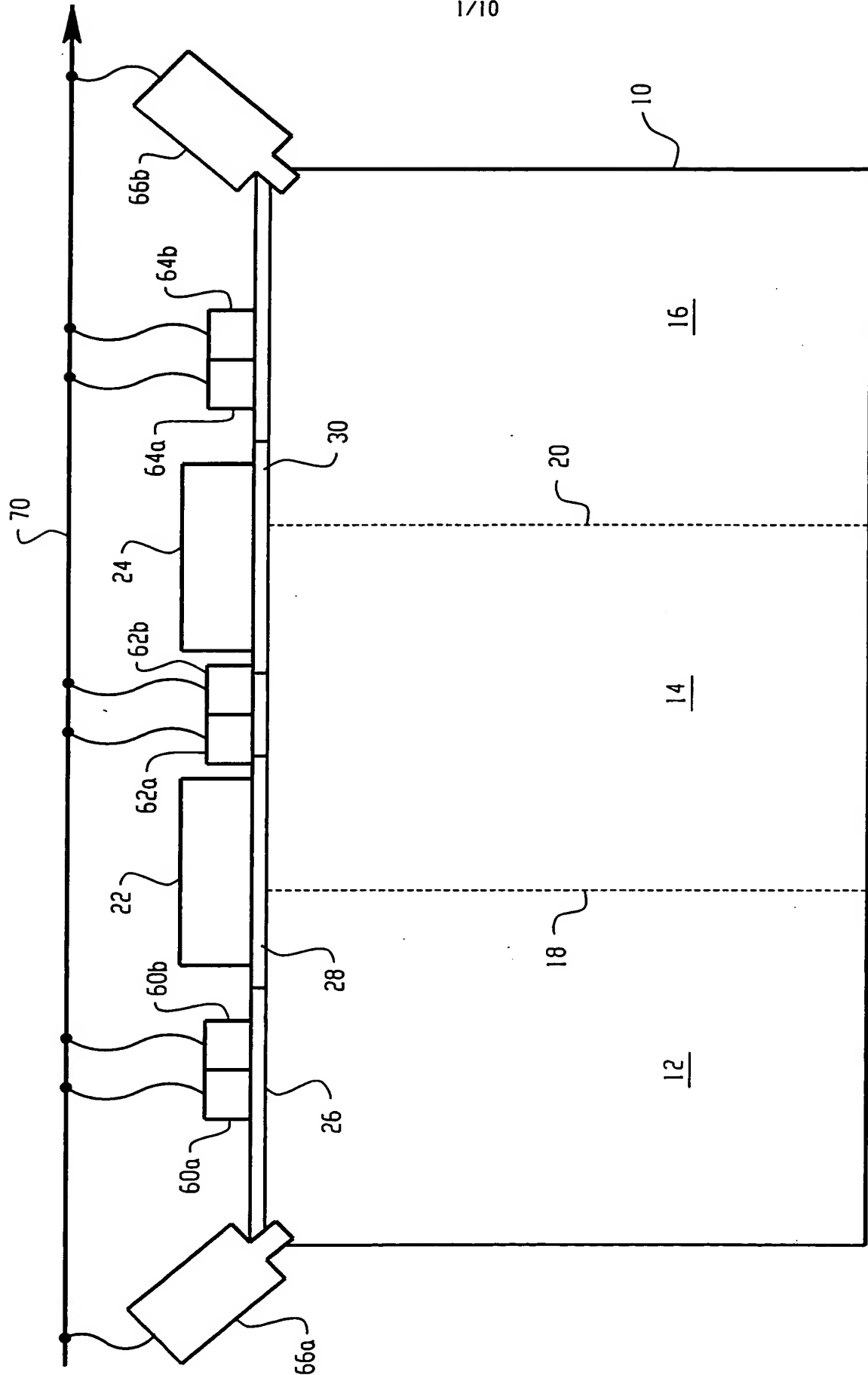
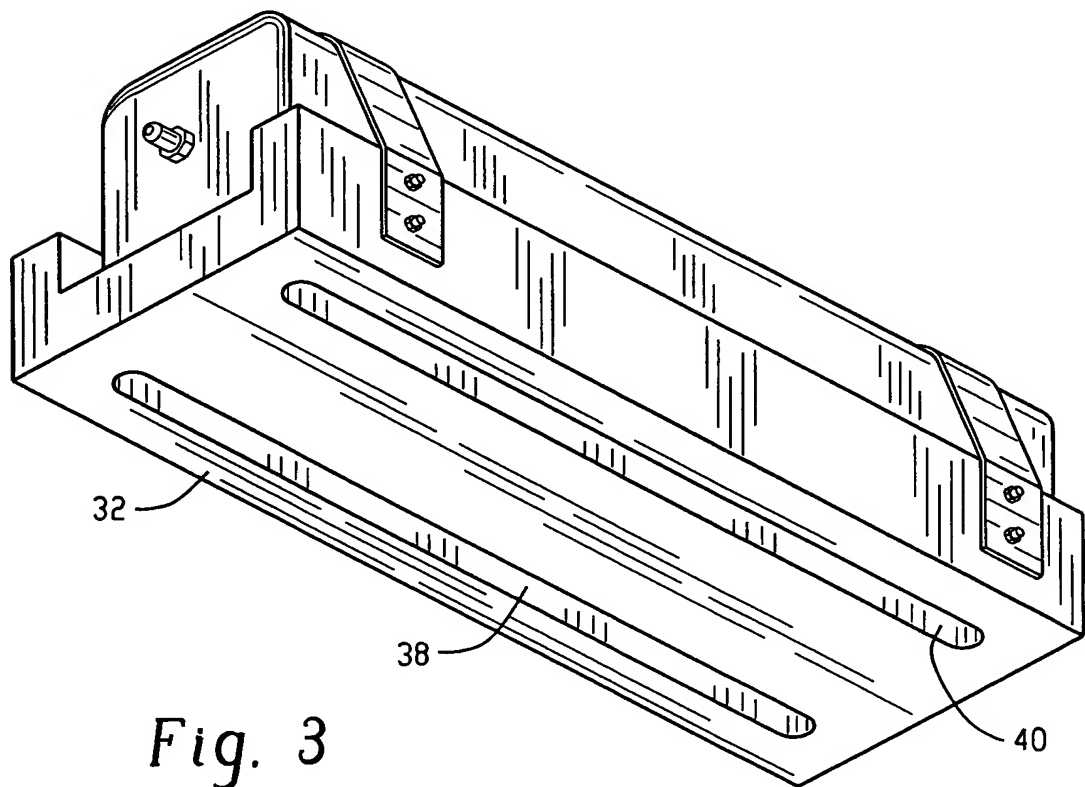
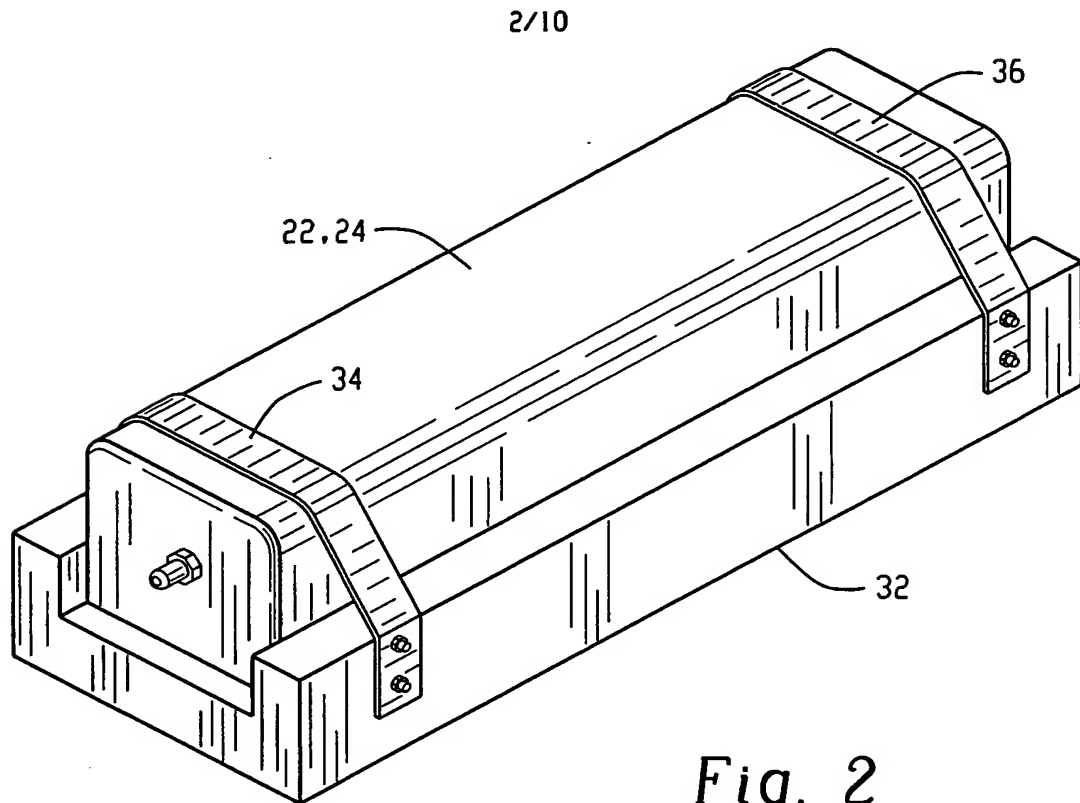


Fig. 1



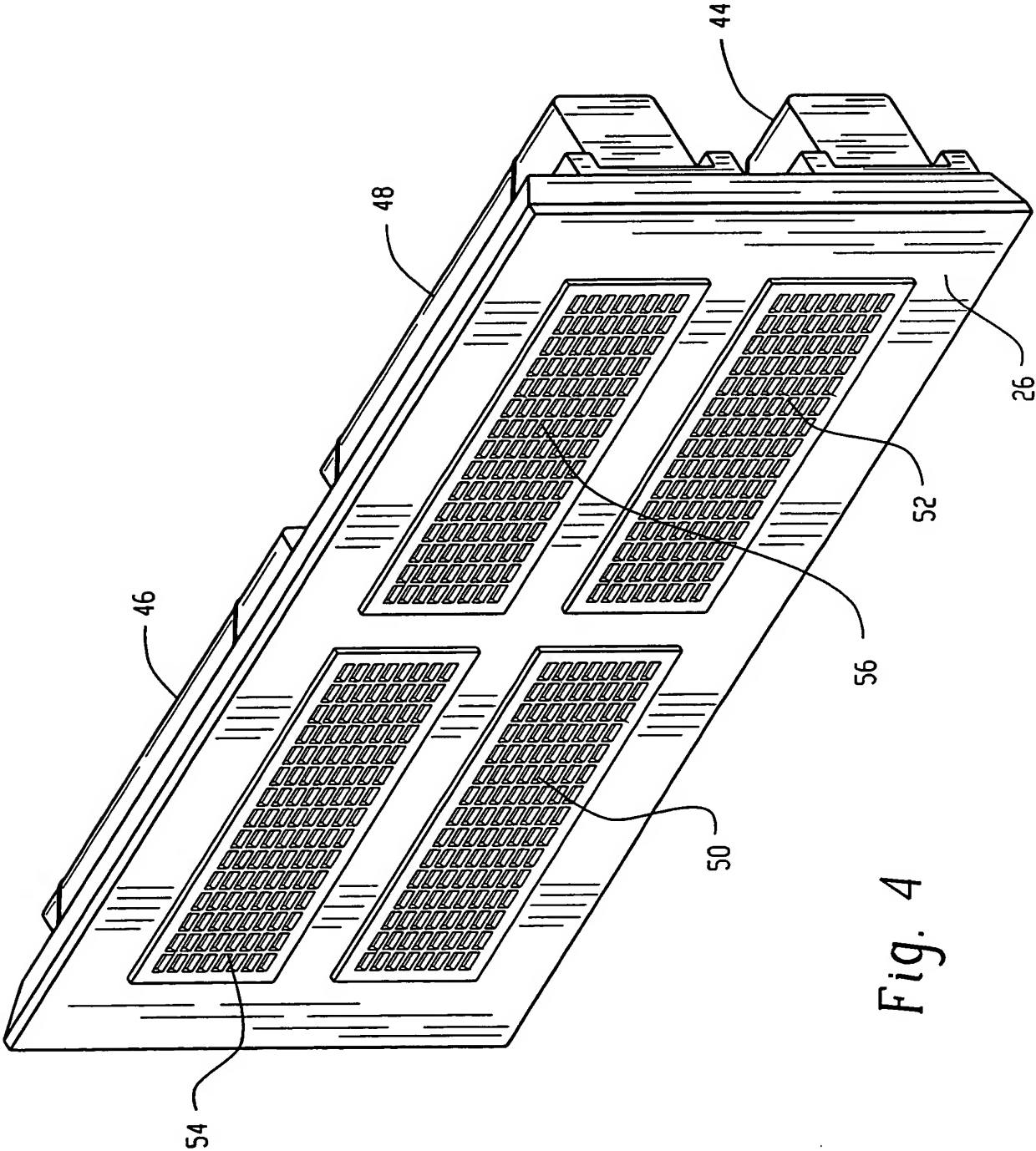
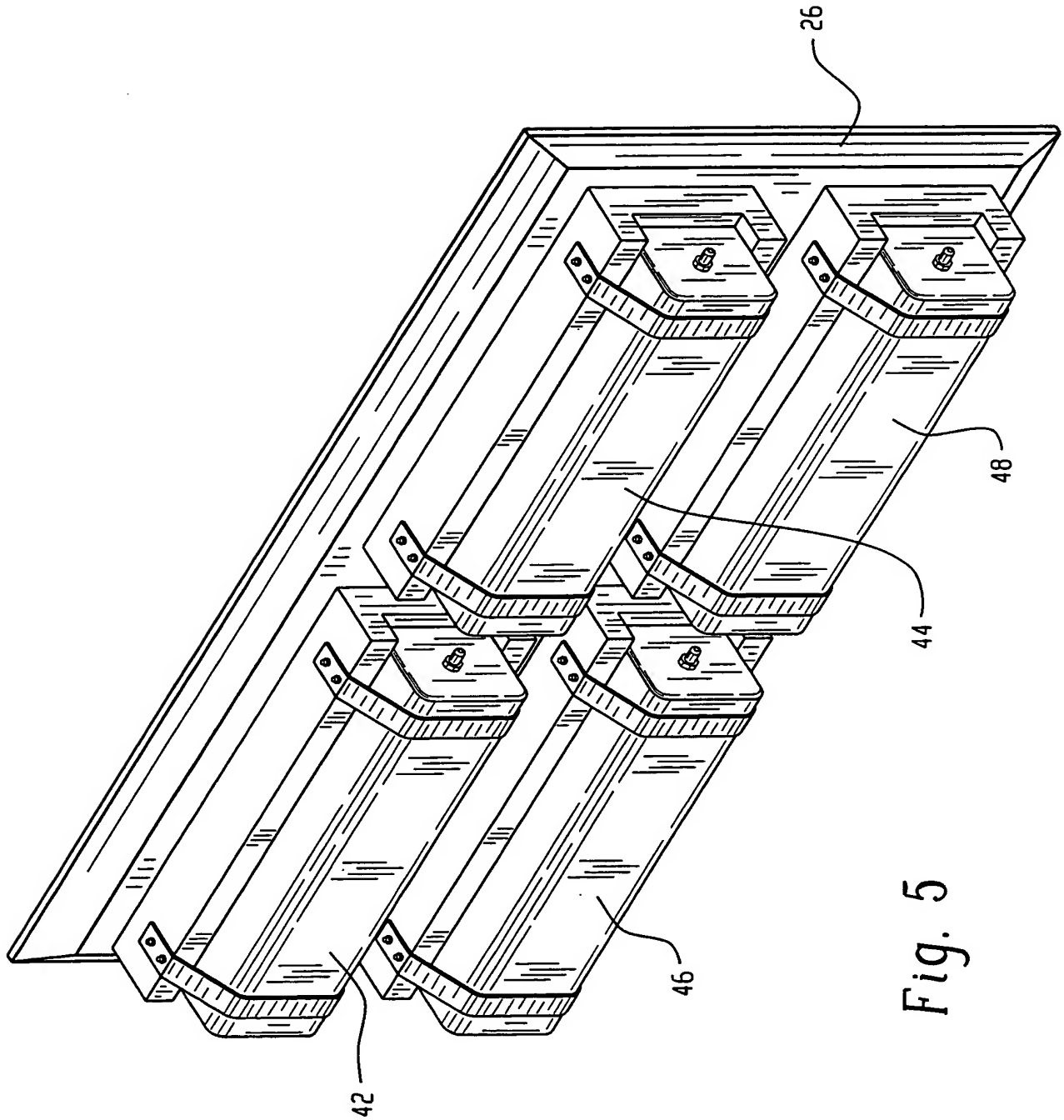


Fig. 4

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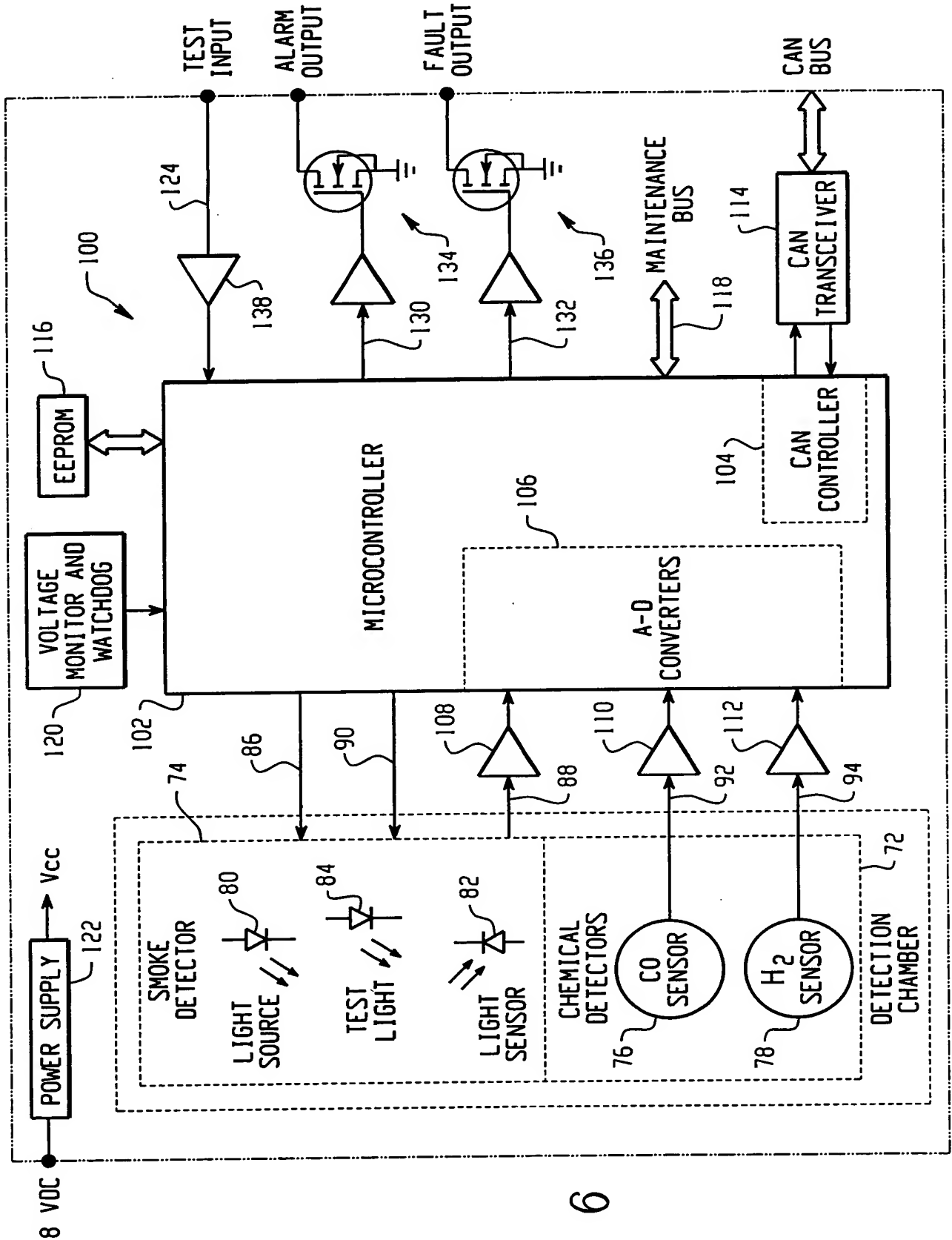


Fig. 6

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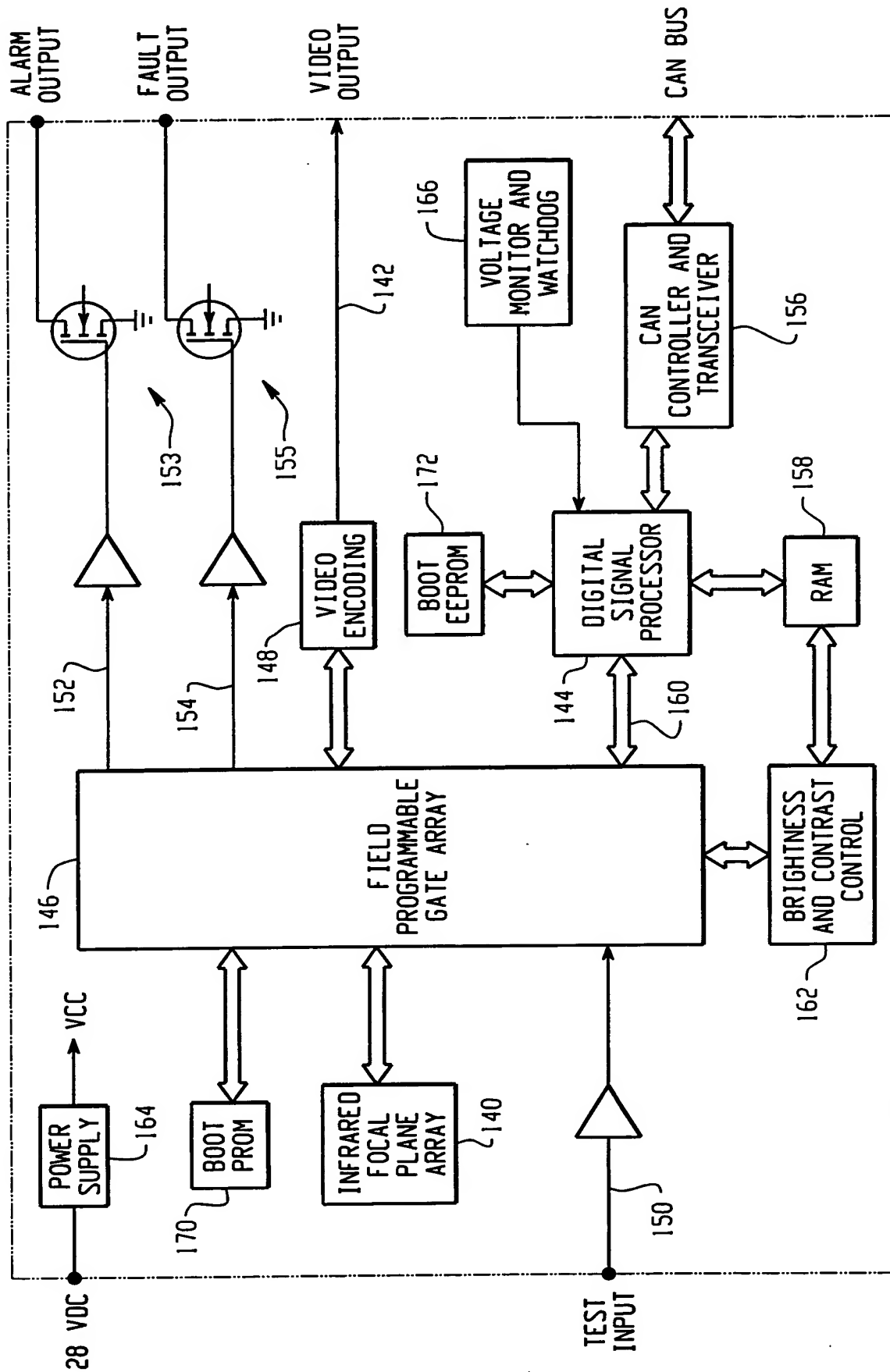


Fig. 7

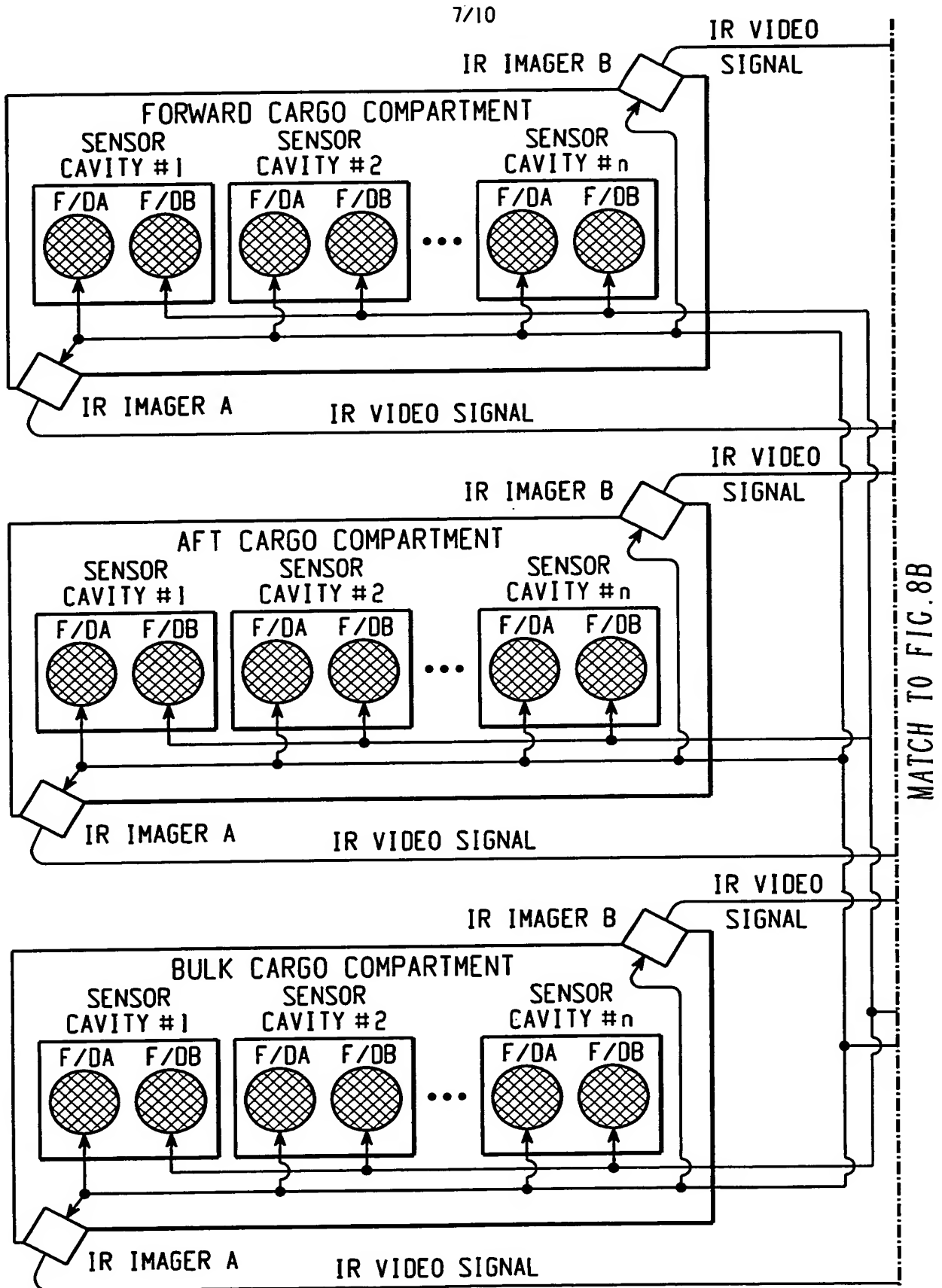


Fig. 8A

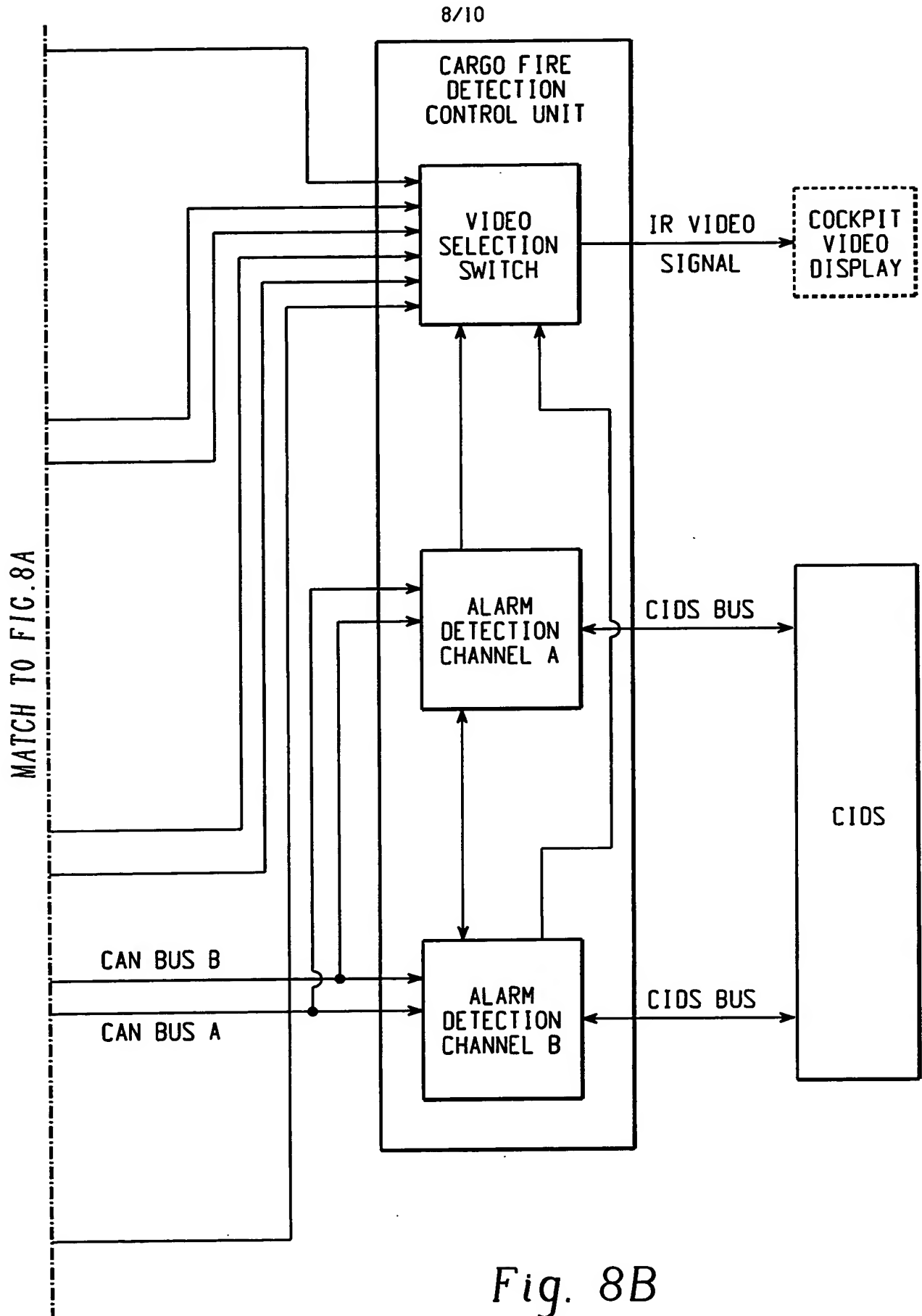


Fig. 8B

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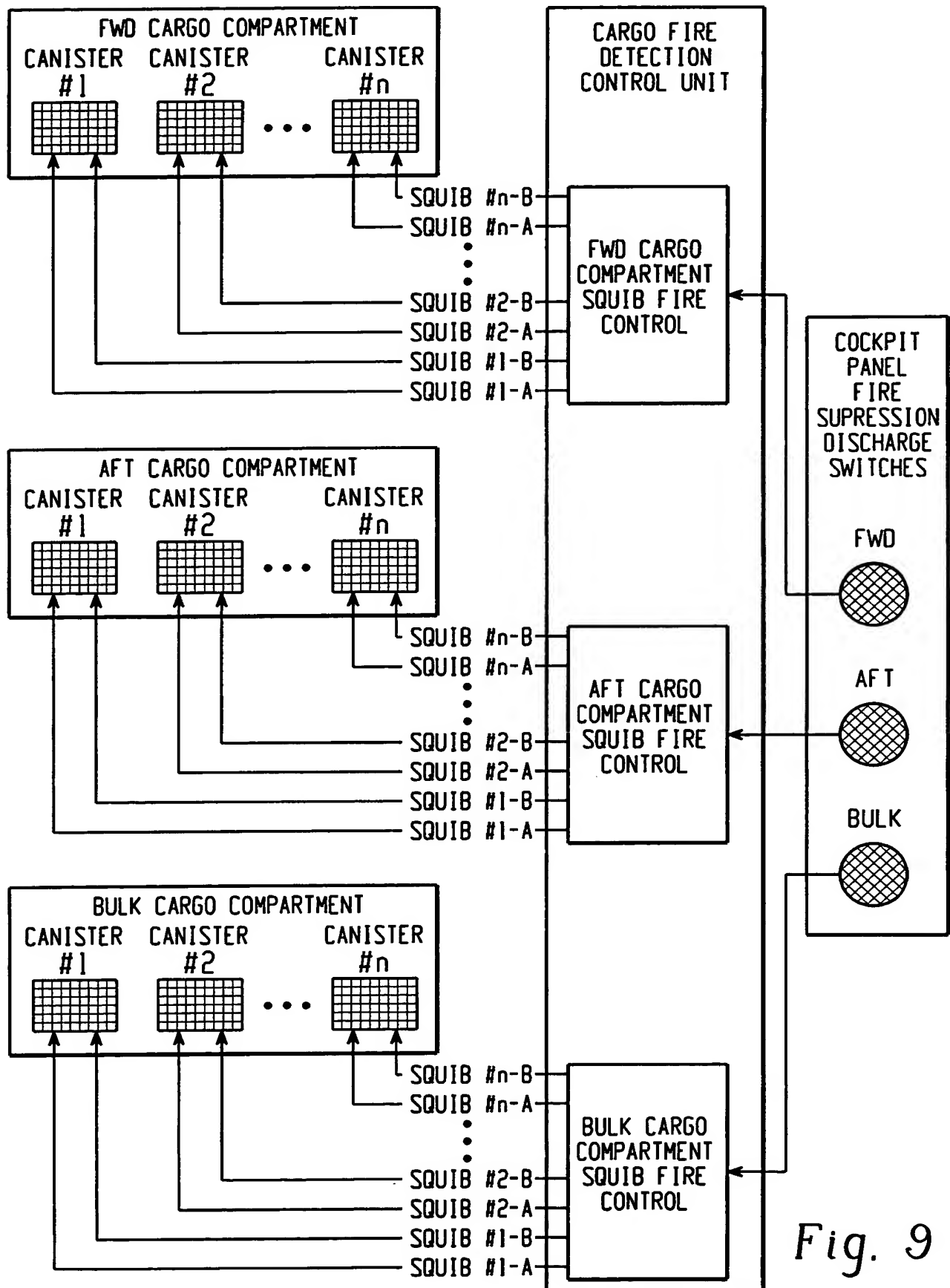
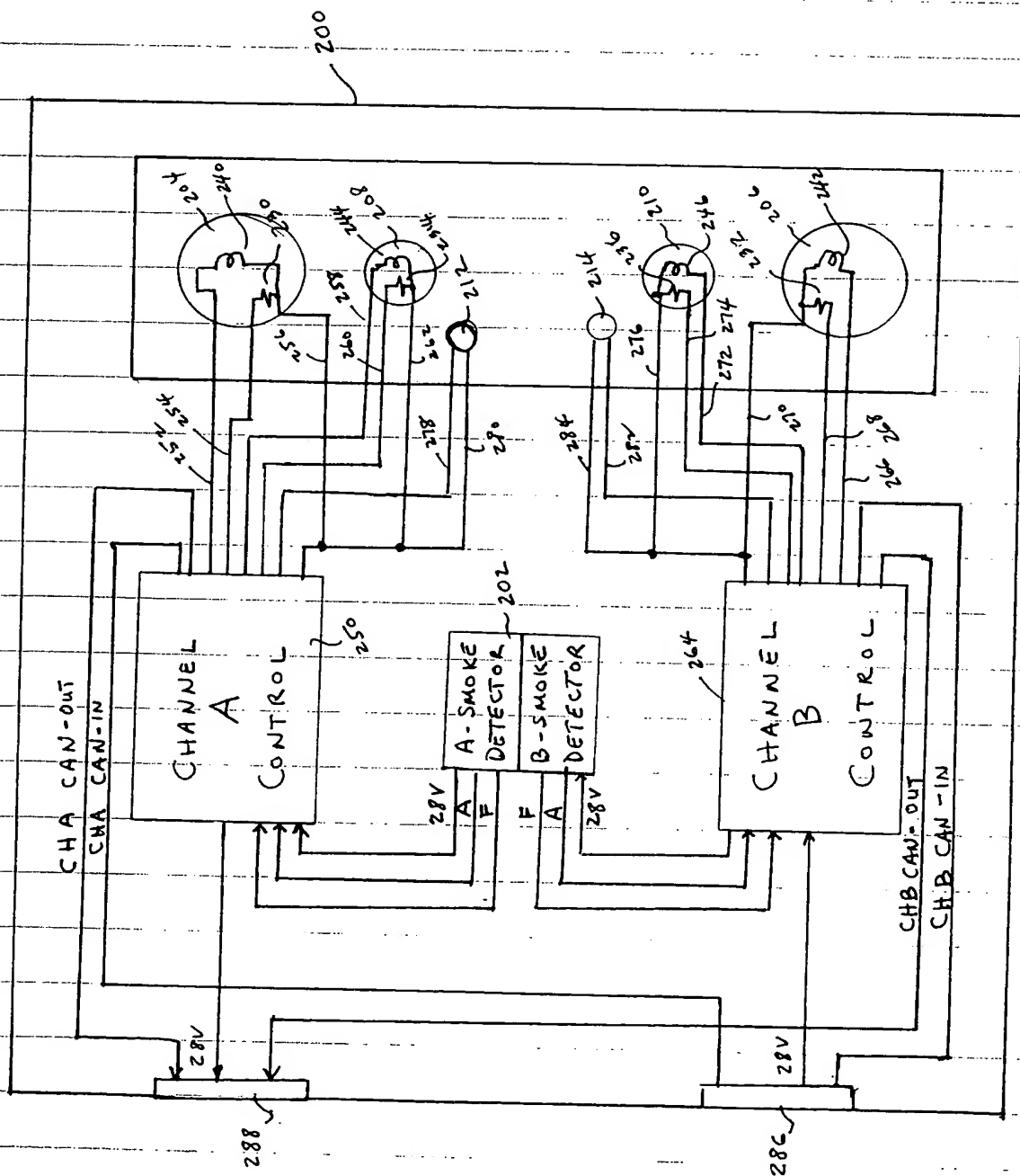


Fig. 9



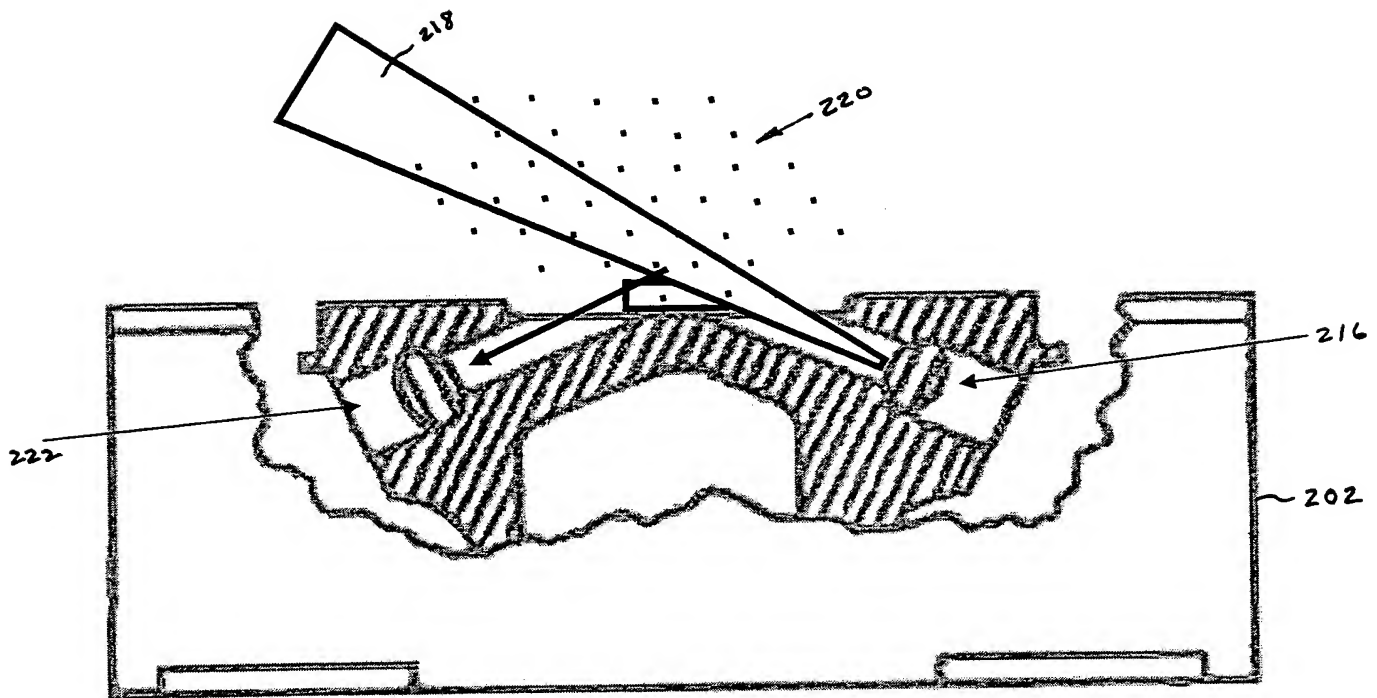


FIG. 13

A MULTI-SENSOR FIRE DETECTOR WITH REDUCED FALSE ALARM PERFORMANCE

Anderson, et al.

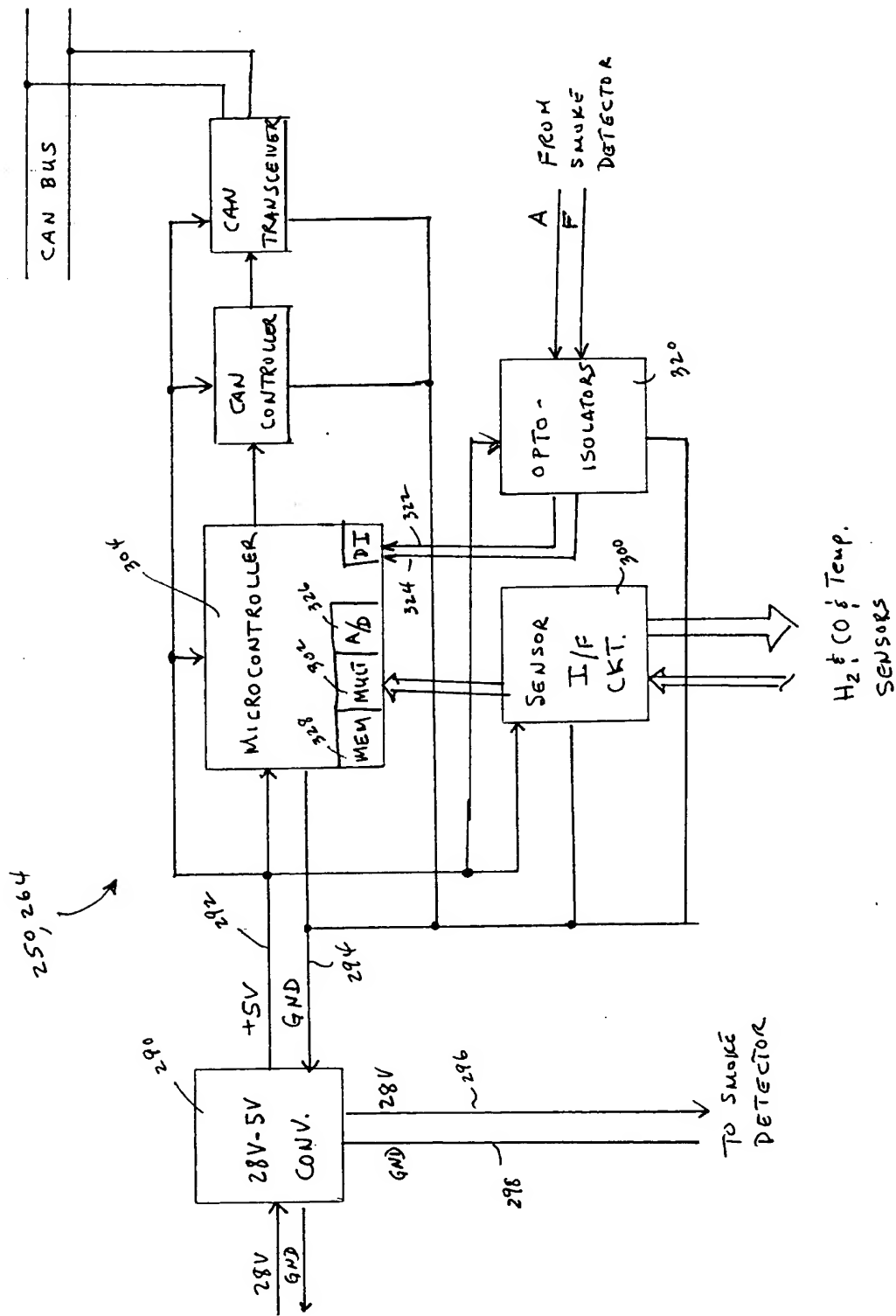
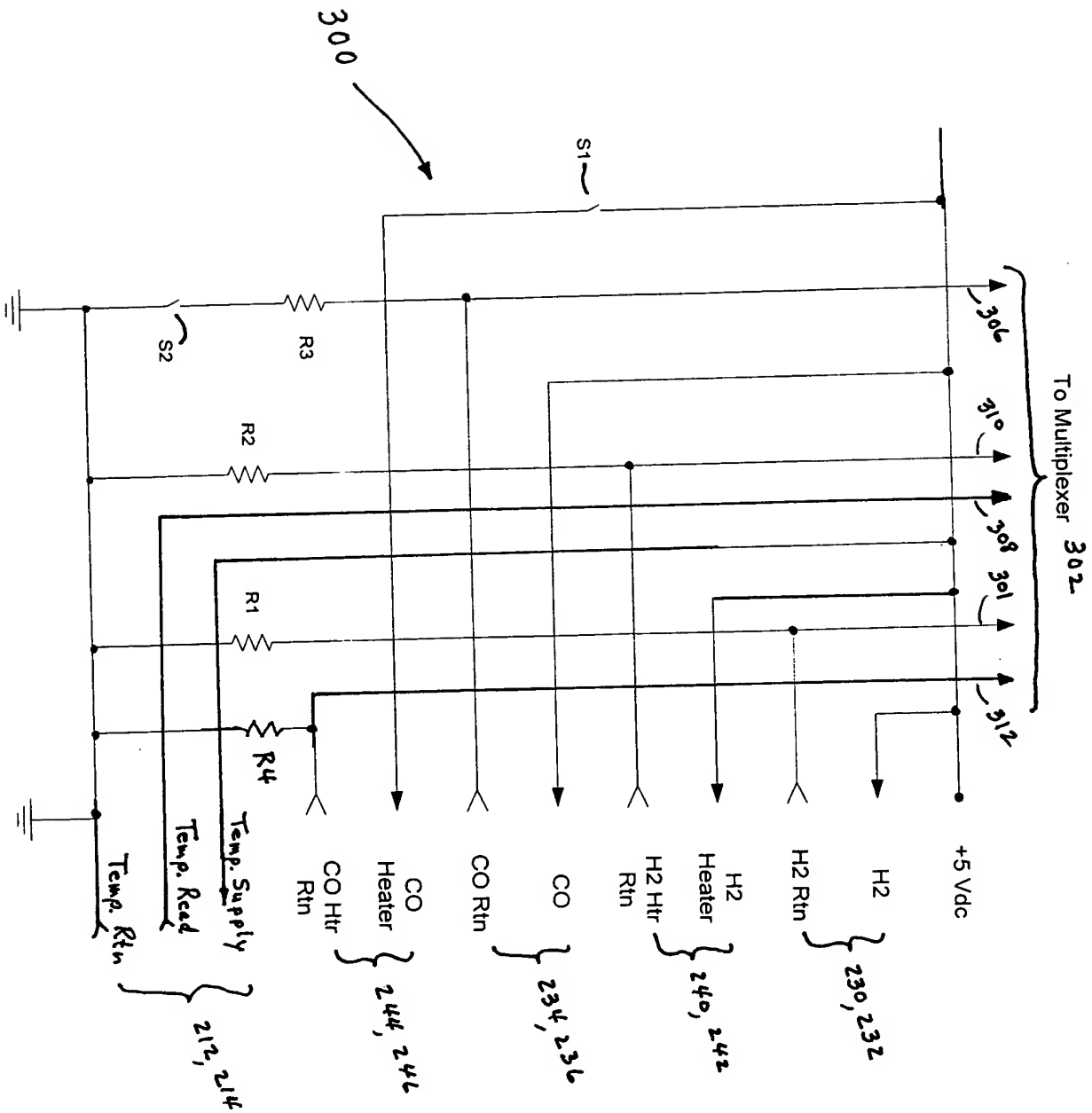


FIG. 14

Figure 15A



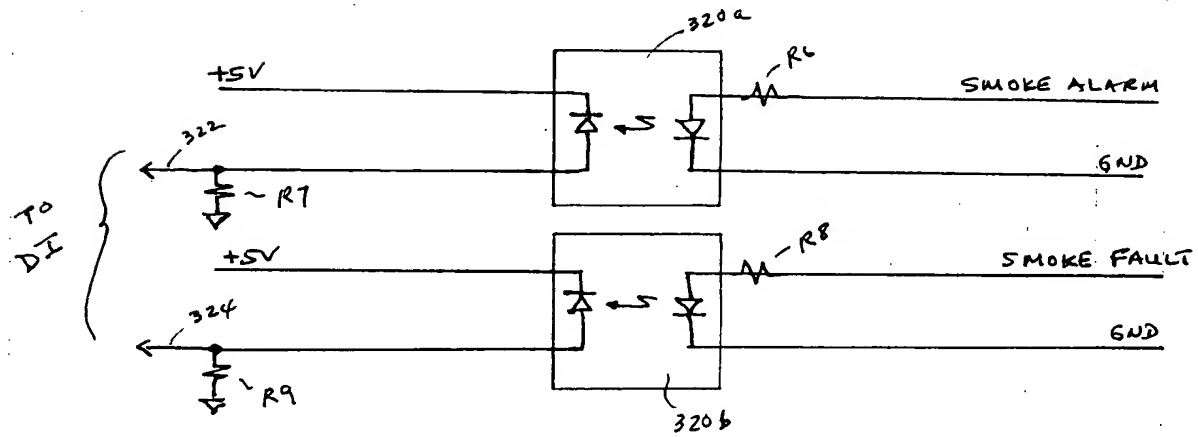
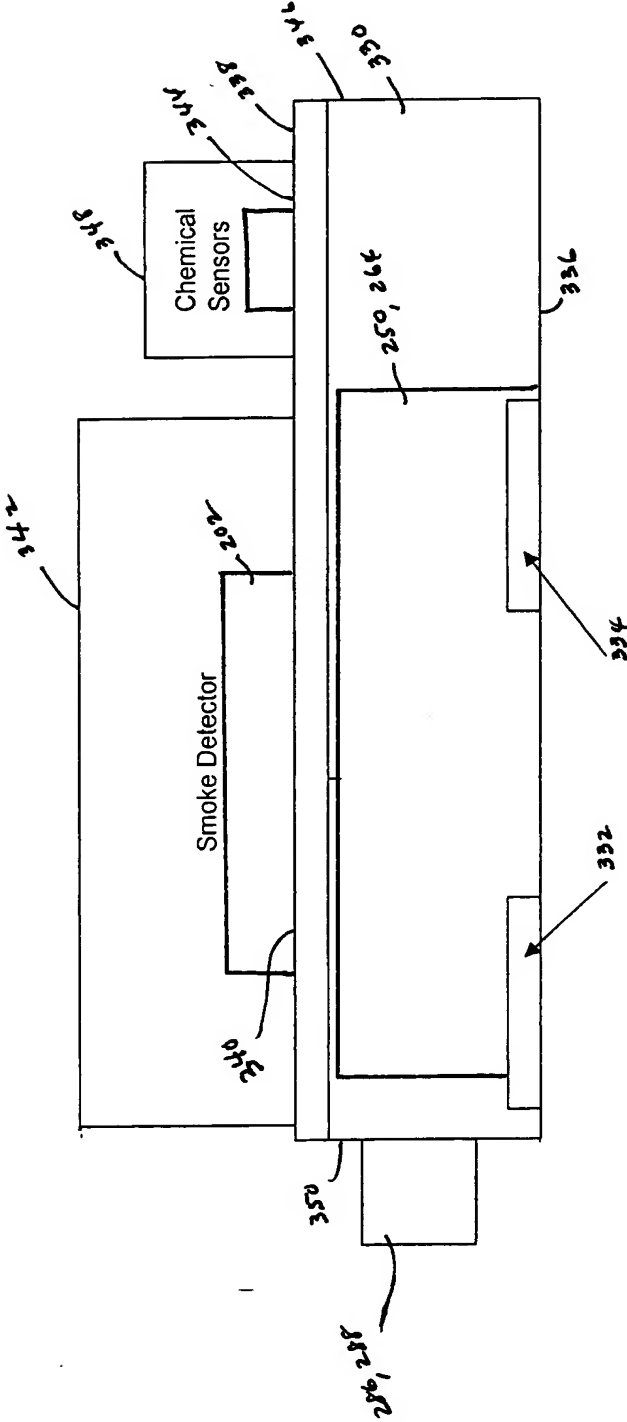


FIG. 15B



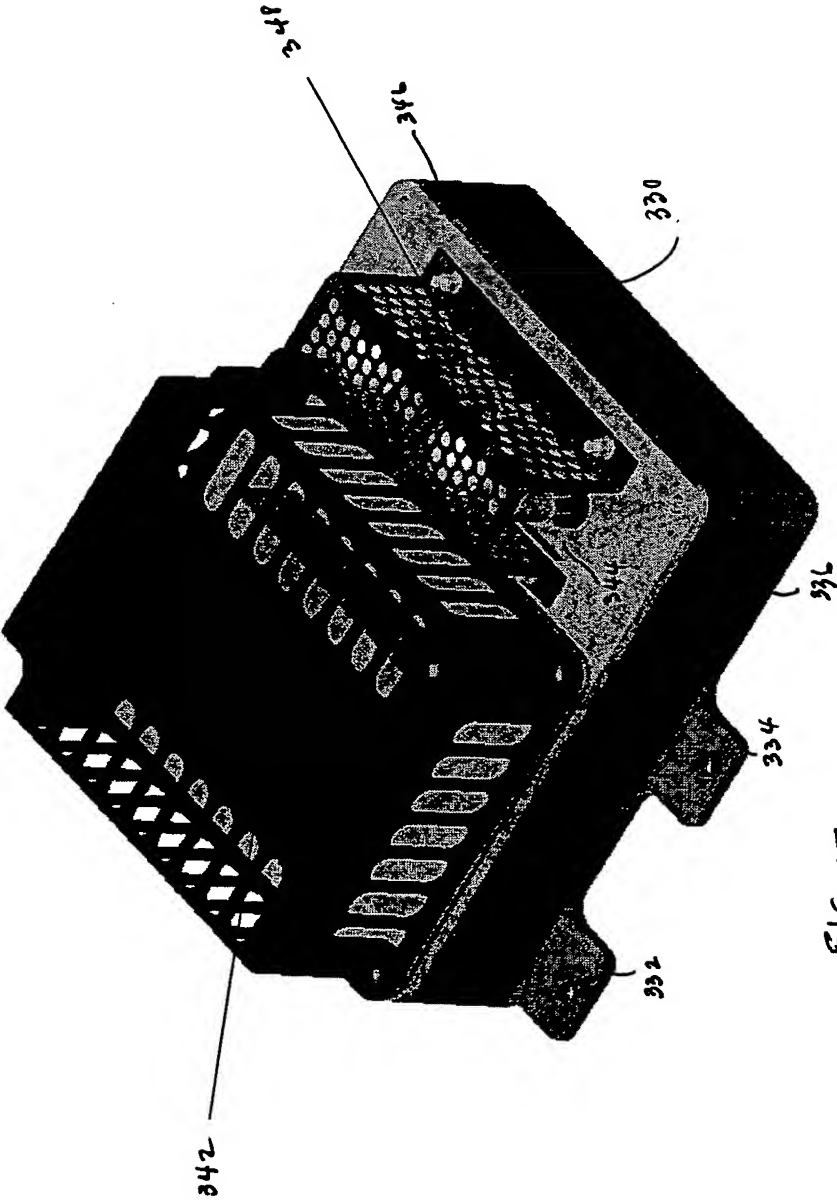


FIG. 17

BURN IN AND
STABILIZE
FIRE DETECTOR 360

DISPOSE FIRE
DETECTOR INTO
TEST CHAMBER 362

TAKE RES. MEAS.
AT PRED. CONC'S.
AT PRED.
TEMPERATURES 364

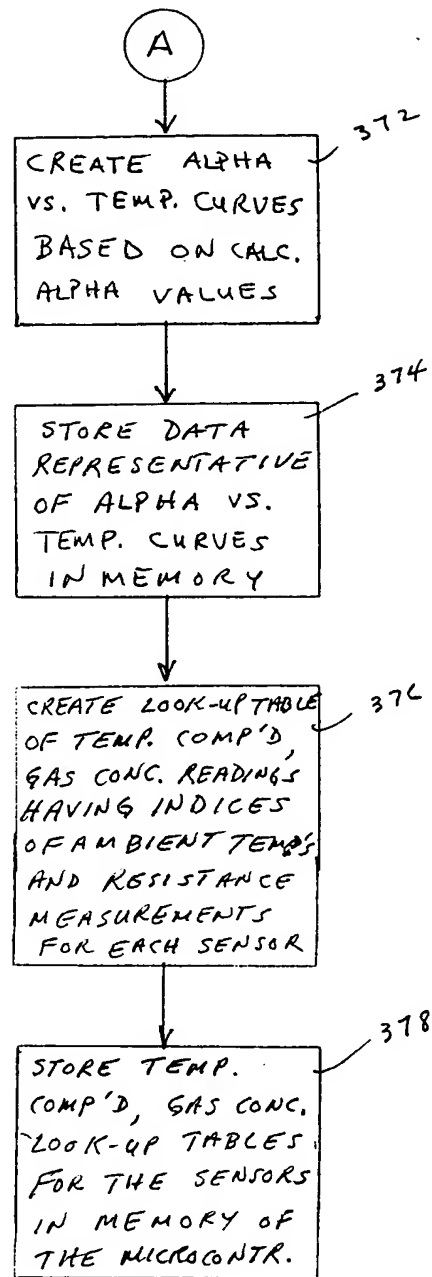
CREATE RES. VS.
TEMP. CURVES
FOR PRED.
CONCENTRATIONS 366

FIG. 18A

STORE DATA
REPRESENTATIVE
OF CURVES IN
MEMORY 368

CALC. ALPHA
VALUES AT
DIFF. TEMP'S.
USING. DATA
FROM CONC.
CURVES 370

A



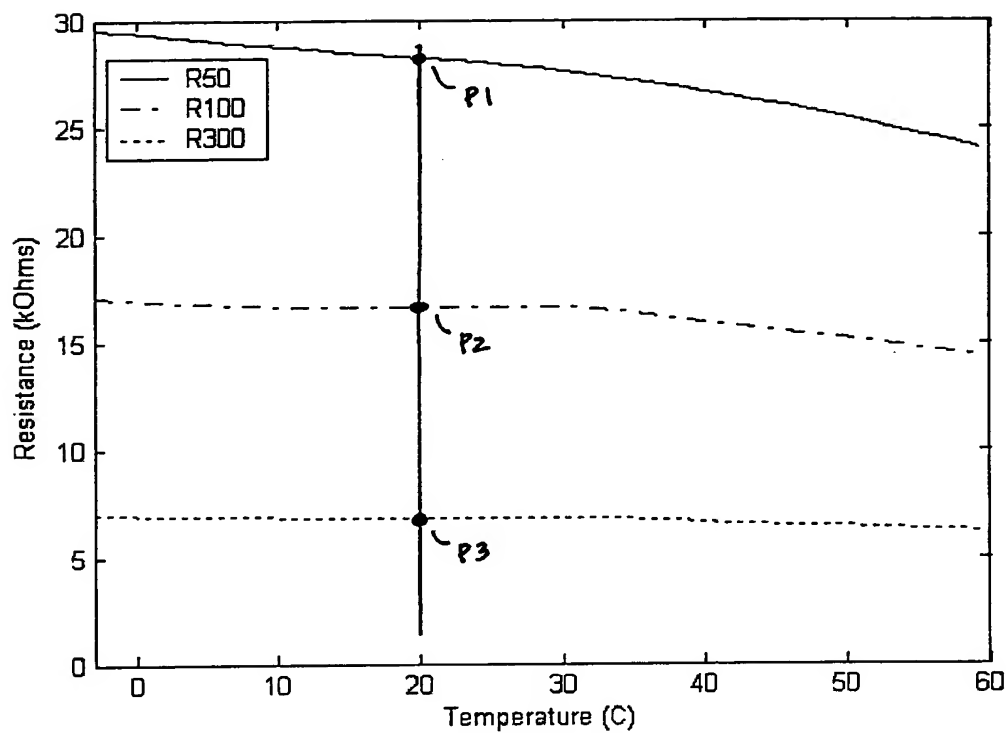


FIG. 19

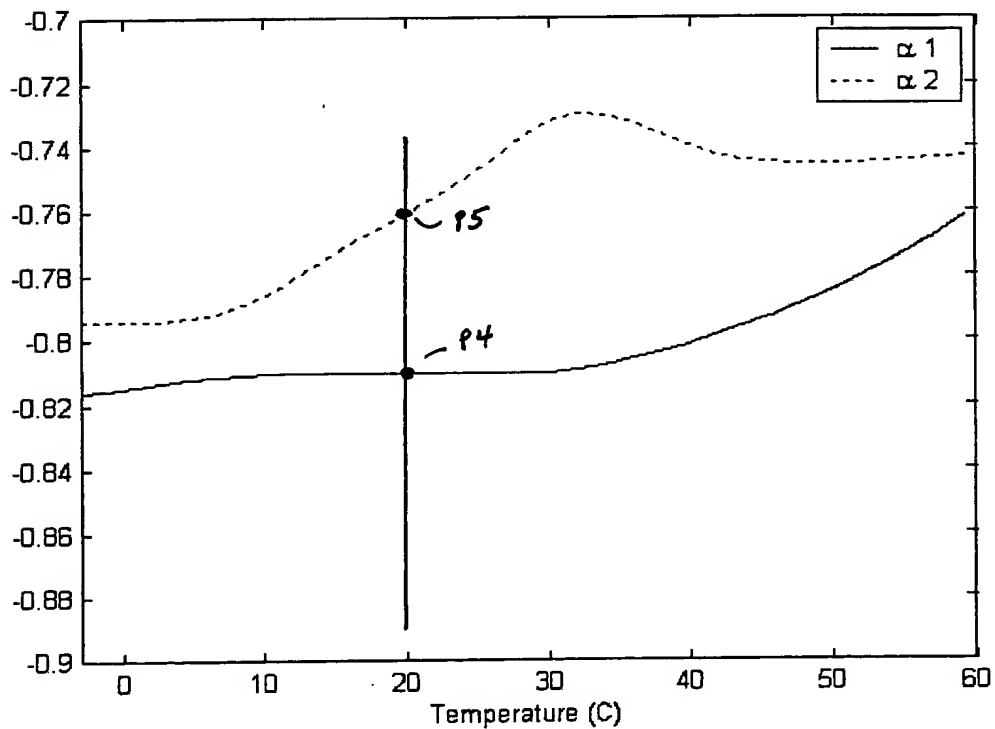
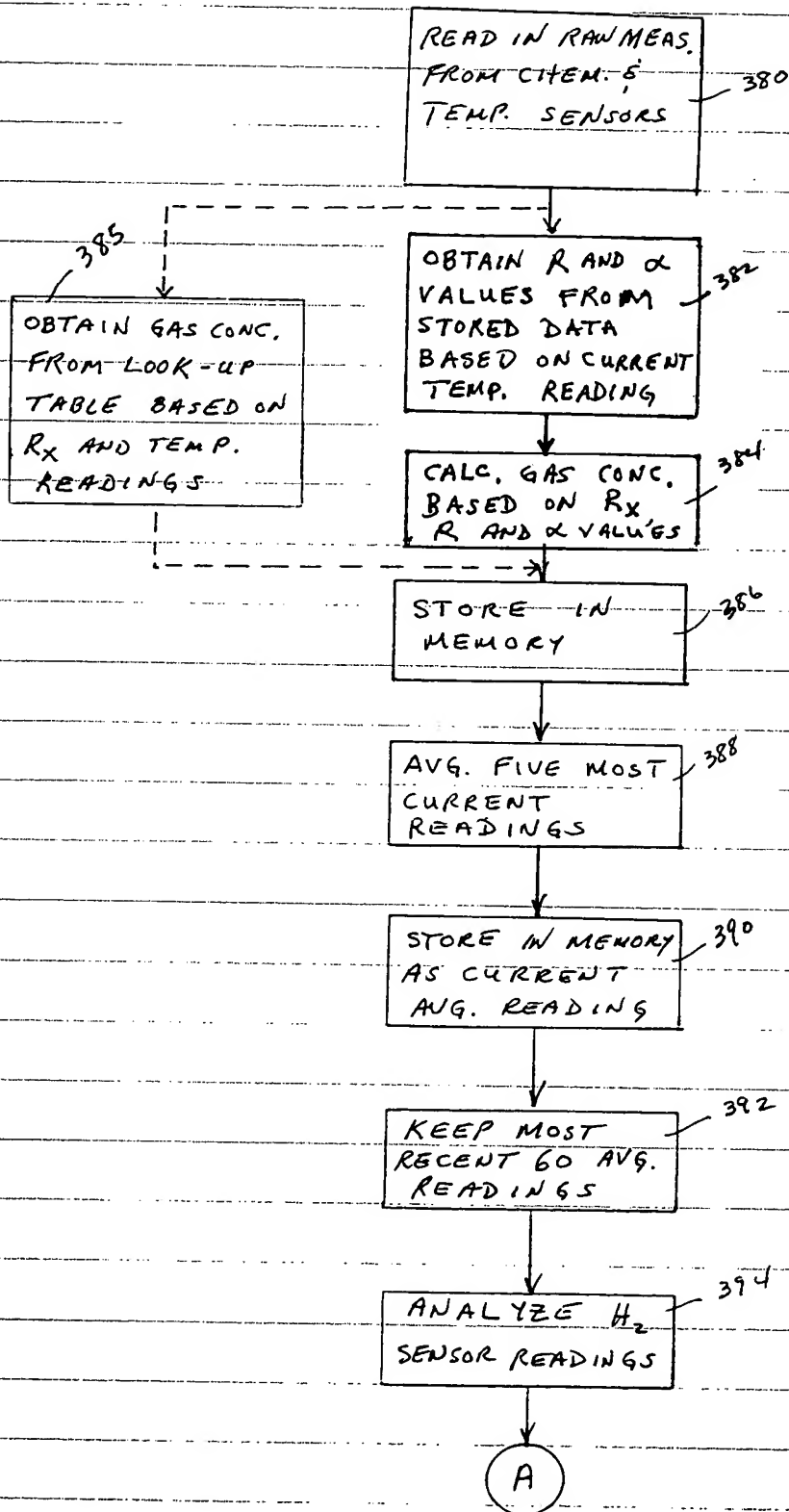
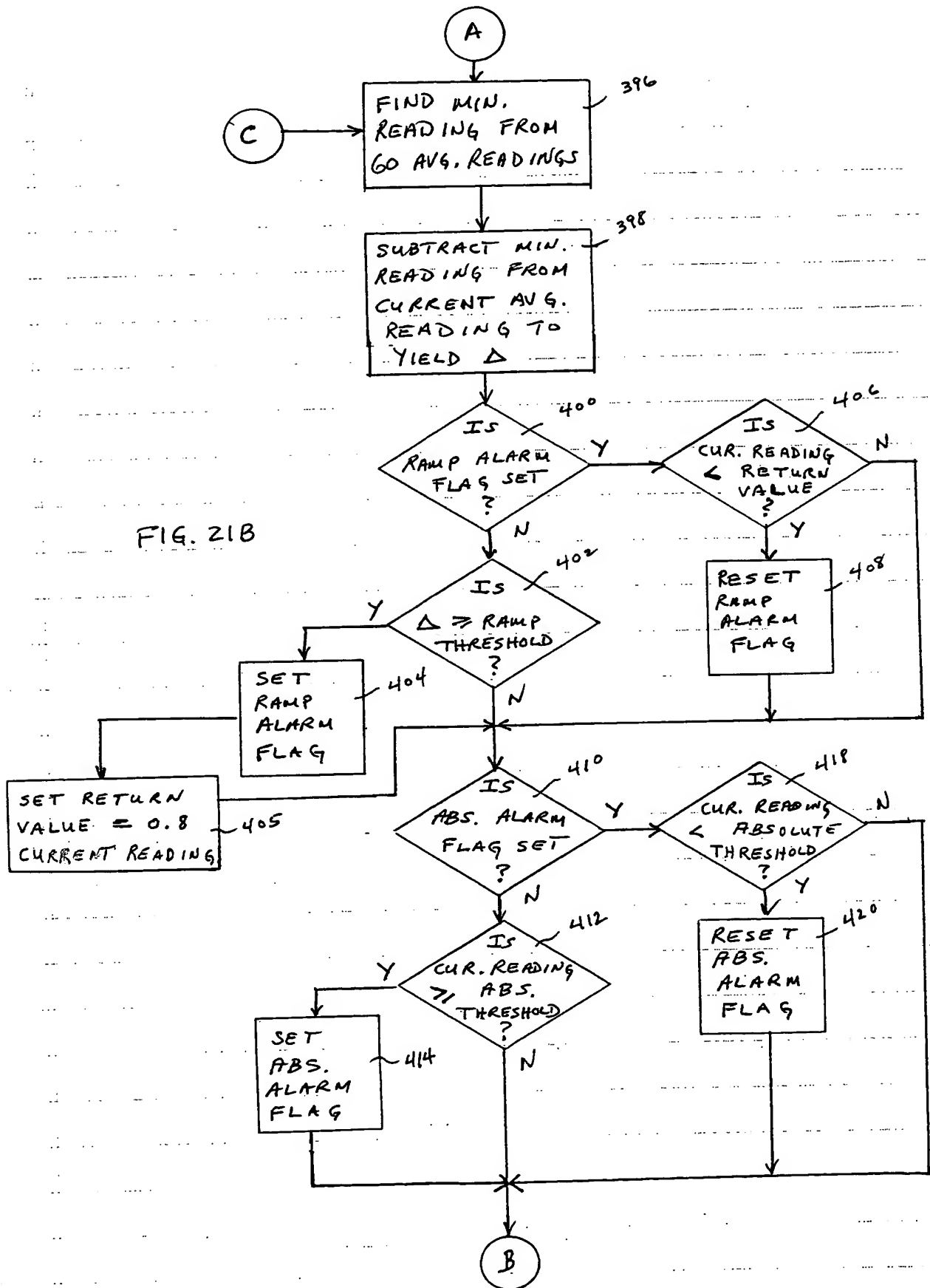
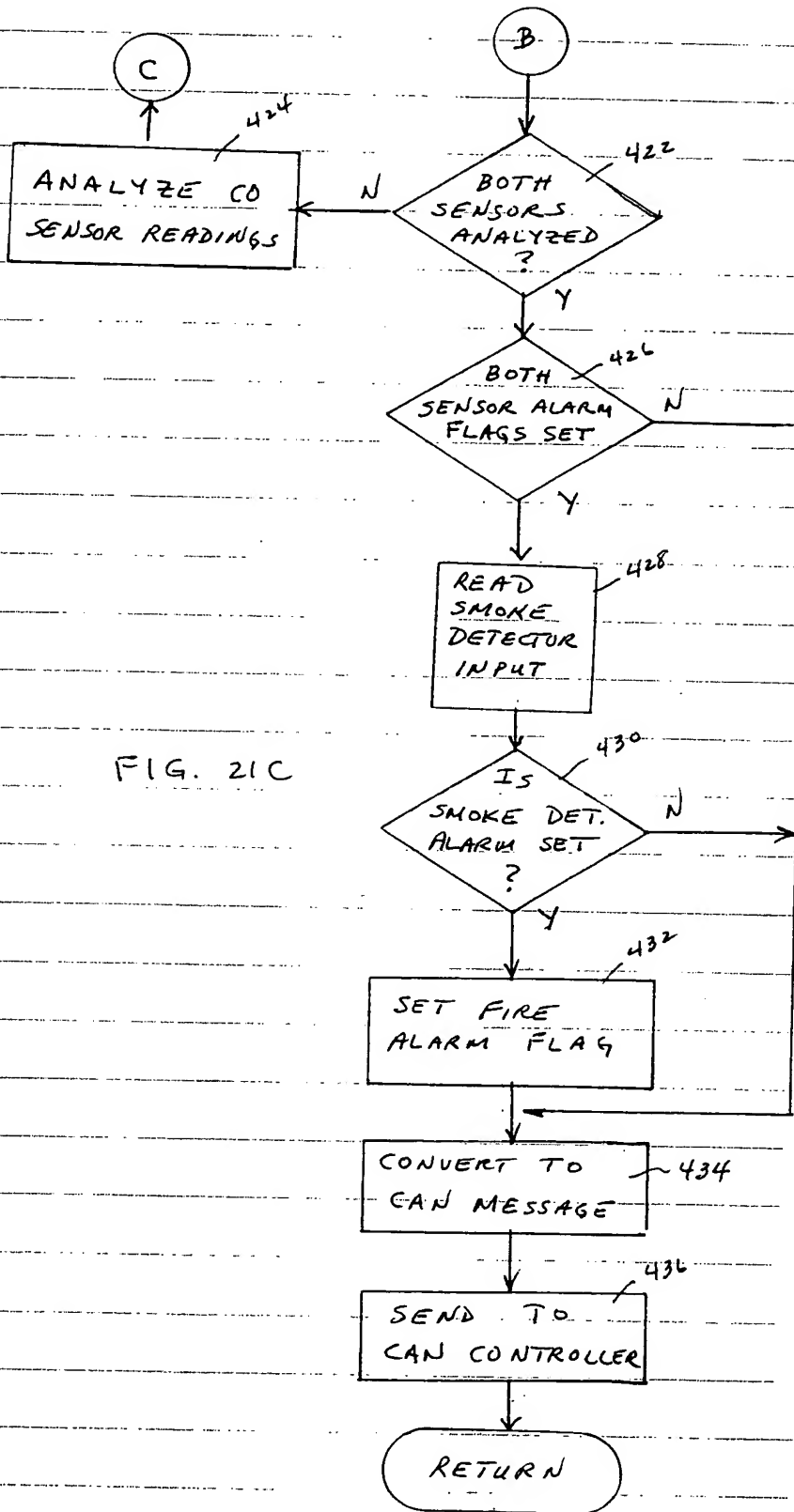


FIG. 20







READ IN FAULT
SIGNALS FROM
CHEMICAL SENSORS
AND SMOKE DET. 440

COMPARE CHEM.
FAULT SIGNALS
WITH RESPECTIVE
THRESHOLDS 442

SET FAULT FLAG
IF COMPARISON
INDICATES FAULT
CONDITION 444

FIG. 22

SET FAULT FLAG
IF SMOKE DET.
FAULT SIGNAL SET 446

FAULT FLAG
SET ? 448
Y
N

INHIBIT FIRE
ALARM, SEND
FAULT MESSAGE,
TAKE CHANNEL
OFF LINE 450

RETURN